

Title (en)

Power saving circuit for gaseous discharge lamps.

Title (de)

Energiesparschaltung für Gasentladungslampen.

Title (fr)

Circuit d'économie d'énergie pour lampe à décharge.

Publication

EP 0033002 A2 19810805 (EN)

Application

EP 80107922 A 19801216

Priority

US 10500179 A 19791218

Abstract (en)

A power saving circuit for a gaseous discharge lamp includes a power circuit and a control circuit. The power circuit is connectable to an AC power supply and to at least one lamp and has a bilateral current conducting power switch with control electrode means. The control circuit has a control switch with control electrode means, and timing means operable to apply a signal to the control electrode means of the control switch to render the control switch conducting at a predetermined time during each half cycle of the AC power supply, the control switch conducting current until zero crossover at the end of each half cycle. Opto-coupler means are associated with the control switch on the one hand and with the control electrode means of the power switch on the other hand to cause actuation of the control electrode means of the power switch and subsequent current conduction by the power switch when the control switch is conducting. The control electrode means of the power switch is connected through the opto-coupler means to the power circuit to cause, while the opto-coupler means is actuated by current conduction through the control switch, adequate power switch actuating current to flow therethrough when the power switch is not conducting and substantially reduced or no current to flow therethrough when the power switch is conducting.

IPC 1-7

H05B 41/392

IPC 8 full level

H05B 41/392 (2006.01)

CPC (source: EP US)

H05B 41/392 (2013.01 - EP US); **Y10S 315/04** (2013.01 - EP US)

Cited by

CN107249242A; EP0311995A3

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)

EP 0033002 A2 19810805; **EP 0033002 A3 19810819**; CA 1154074 A 19830920; US 4287455 A 19810901

DOCDB simple family (application)

EP 80107922 A 19801216; CA 366980 A 19801217; US 10500179 A 19791218